UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandria, Virgima 22313-1450 www.usplo.gov

NOTICE OF ALLOWANCE AND FEE(S) DUE

21839 7590 01/29/2010 BUCHANAN, INGERSOLL & ROONEY PC POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404 EXAMINER
RICHEY, SCOTT M
ART UNIT PAPER NUMBER
2877
DATE MAILED: 0129/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/577,463	09/28/2006	Jyrki Kauppinen	1028443-000073	5051
TITLE OF INVENTION, IN	TTERETEROMETER			

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	YES	\$755	\$300	\$0	\$1055	04/29/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above

B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used to correspondence including d below or directed other ions.	or transmitting the ig the Patent, advar nerwise in Block 1,	ISSUE FEE and PU ace orders and notific by (a) specifying a n	BLICATI ation of r ew corres	ON FEE (if require naintenance fees wil spondence address; a	ed). B II be r and/or	locks 1 through 5 sl nailed to the current (b) indicating a sepa	nould be completed when correspondence address a trate "FEE ADDRESS" fo
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Feet	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, mus have its own certificate of mailing or transmission.			
21839 BUCHANAN, POST OFFICE I ALEXANDRIA.		I be	Certi	ficate Fee(s	of Mailing or Trans	mission g deposited with the United t class mail in an envelope above, or being facsimile ate indicated below.		
								(Depositor's name)
								(Signature)
				L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED IN	VENTOR	1	ATTOE	RNEY DOCKET NO.	CONFIRMATION NO.
10/577,463 TITLE OF INVENTION	09/28/2006 INTERFEROMETER		Jyrki Kaupp	oinen		10	28443-000073	5051
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE		EE DUE	PREV. PAID ISSUE	FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$755	\$300		\$0	\$0 \$1055		04/29/2010
EXAM	INER	ART UNIT	CLASS-SUBC	LASS	J			
RICHEY, S		2877	356-4550	00				
1. Change of corresponde CFR 1.363). Change of corresponderess form PTO/SE "Fee Address" indi PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME Al	or agents OR (2) the name registered atto 2 registered plisted, no name	cragens OR, alternatively, (2) the name of a single firm (taving as a member a registered attempt or agent) and the names of up to registered attempt or agent) and the names of up to registered attempt or agent and agents. If no name is [isted, no name will be printed.]						
	ess an assignee is ident n in 37 CFR 3.11. Comp BNEE	ified below, no assi sletion of this form i	gnee data will appear s NOT a substitute for (B) RESIDENC	on the p filing an E: (CITY	atent. If an assigned assignment. and STATE OR CO	OUNT:	RY)	ocument has been filed for
4a. The following fee(s) a	re submitted:		4b. Payment of Fee	e(s): (Plea nclosed. credit car	ise first reapply any	previ	iously paid issue fee	
5. Change in Entity Stat	us (from status indicates s SMALL ENTITY statu						TTY status. Sec 37 Cl	
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req ecords of the United Sta	uired) will not be ac tes Patent and Trade	cepted from anyone ot mark Office.	her than t	he applicant; a regist	ered a	ttorney or agent; or th	e assignee or other party ir
Authorized Signature					Date			
Typed or printed name					Registration No			
This collection of inform an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	ER 1.311. The infor U.S.C. 122 and 37 USPTO. Time will rden, should be sent D NOT SEND FEES	mation is required to o CFR 1.14. This collect vary depending upon to the Chief Informat OR COMPLETED F	obtain or r tion is est the indivi ion Office ORMS TO	etain a benefit by the imated to take 12 mi idual case. Any con er, U.S. Patent and T D THIS ADDRESS.	e publi inutes iments radem SENE	c which is to file (and to complete, including on the amount of tit ark Office, U.S. Depa TO: Commissioner	by the USPTO to process g gathering, preparing, and ne you require to complete utment of Commerce, P.O. for Patents, P.O. Box 1450

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

P O Box 1450 Alexandra, Virgima 22313-1450 www.uspto.gov

DATE MAILED: 01/29/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/577,463	09/28/2006	Jyrki Kauppinen	1028443-000073	5051	
21839 75	90 01/29/2010	EXAMINER			
BUCHANAN, IN	GERSOLL & ROO	RICHEY, SCOTT M			
POST OFFICE BO		ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	A 22313-1404	2877			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability

Application No.	Applicant(s)			
10/577,463	KAUPPINEN, JYRKI			
Examiner	Art Unit			
Scott M. Richey	2877			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to 9 October 2009.
- The allowed claim(s) is/are 1-13.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - i) ☑ All b) ☐ Some* c) ☐ None of the:
 - 1. A Certified copies of the priority documents have been received.
 - 2. Certified copies of the priority documents have been received in Application No. _____
 - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date _____
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2.
 Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other ____

Application/Control Number: 10/577,463

Art Unit: 2877

DETAILED ACTION

Allowable Subject Matter

Claims 1-13 are allowed

While the individual elements claimed are all known in the art, their particular arrangement is not disclosed by or obvious in view of the prior art. The following are the examiner's specific reasons for allowance:

As to claim 1, the prior art of record, taken alone or in combination, fails to disclose or render obvious the "third angle reflector constituted by plane reflectors, and an angle line of the at least one end reflector is arranged perpendicular to an angle line of both of the first and second angle reflector," in combination with the rest of the

As to claim 10, the prior art of record, taken alone or in combination, fails to disclose or render obvious "guiding the optical beams reflected from the first and the second angle reflector through use of at least one end reflector, constituted by plane reflectors, by reflecting the optical beams off the at least one end reflector, and where an angle line of the at least one end reflector is perpendicular to an angle line of both of the first and the second angle reflector," in combination with the rest of the limitations of the claim

As to claim 11, the prior art of record, taken alone or in combination, fails to disclose or render obvious the "angle line of the at least one end reflector is arranged

Application/Control Number: 10/577,463

Art Unit: 2877

perpendicular to an angle line of both of the first and the second angle reflector," in combination with the rest of the limitations of the claim.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Scott M. Richey whose telephone number is (571) 270-1296. The examiner can normally be reached on Monday - Thursday, 10:00 - 17:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Toatley can be reached on (571) 272-2059. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2877

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Scott M. Richey /Gregory J. Toatley, Jr./
Patent Examiner Supervisory Patent Examiner,
Art Unit 2877 Art Unit 2877

27 January 2010